

Prepared By

COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Prepared For

**Intelsat License LLC
NUEVO, CALIFORNIA**

Temporary Transmit-Only Earth Station
Operation Dates: 06/26/2014 - 10/01/2014

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations. Verbal and written coordination was conducted with the below listed carriers on April 13, 2014.

Company

AT&T California
AirSites2000, LLC
Airband Communications Inc
Area Energy LLC
Arizona Public Service Company (APS)
Arizona, State Of
BNSF Railway Company
BFI Licenses, LLC
Boeing Company
CBS Broadcasting Inc
CBS Communications Services Inc.
CCO SoCal I, LLC
CITY OF POMONA COMMUNICATIONS
CNG Communications, Inc.
California, State of
Cellco Partnership - California
Central Arizona Water Conservation Distr
Chevron USA Inc.
City of Los Angeles Dept Water & Power
City of Yuma
Coachella Valley Water District
El Paso Natural Gas Company, LLC
Federal Communications Commission
Fisher Wireless Services, Inc.
Freeport-McMoRan Oil & Gas LLC
Fresno MSA Limited Partnership
Frontier Communications of the Southwest
GULF-CALIFORNIA BROADCAST COMPANY
Gila Electronics of Yuma, Inc
Glendale, City of
Gogo LLC

Company (Continued)

HARRIS CORPORATION
INCOMM DIVISION CHURCH OF SCIENTOLOGY
Imperial Irrigation District
Kern Ed Telecom Consortium
Kern, County of
LOS ANGELES UNIFIED SCHOOL DISTRICT
Los Angeles City Info Technology Agency
Los Angeles County Dept of Public Works
Los Angeles County FCC Licensing Section
Los Angeles County Metro Transit Auth
Los Angeles SMSA Ltd. Partnership
MHO Networks
MOBILE RELAY ASSOCIATES INC
Metropolitan Water Dist of So California
Mile High Inc
New Cingular Wireless PCS LLC - AZ
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS LLC -San Diego
Nextel of California Inc.
ORANGE, COUNTY OF, CA
PACIFIC PIPELINE SYSTEM LLC
Pacific Gas and Electric Company
Palomar Observatory California Institute
Ponderosa Telephone Company
Riverside, County of
San Bernardino County of California
San Diego Gas & Electric Company
San Diego, City of
San Diego, County of
Santa Barbara, County of
Southern California Edison Company
Southern California Gas Company
Southern California Regional Rail Auth.
Sprint PCS
Sprint Spectrum LP DBA Sprint PCS
Sprint Telephony PCS, L.P.
T-Mobile License LLC
TV MICROWAVES CO
Ultimate Internet Access, Inc.
Union Pacific Railroad Company
University of California,HPWREN
VENOCO, INC.
Ventura, County of
Verizon California Inc.
Verizon Wireless (VAW) LLC (CA)
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT
WWC License L.L.C. - California
WWC License LLC - AZ/CO/NM/NV/UT
3G Wireless, LLC

Company (Continued)

ABC Holding Company Inc.
AERIAL VIDEO SYSTEMS
Alascom Inc
Ascent Media Network Services, LLC
Bellsouth Telecommunications, Inc.
Blackhawk Broadcasting LLC
Board of Trustees for San Diego Univ
Borgeson, Tom R.
Broadcast Sports Inc.
CALIPATRIA BROADCASTING COMPANY LLC
Carolina Telephone and Telegraph Co
Casper, John
CenturyTel of the Southwest, Inc.
Channel 51 of San Diego, Inc.
Chicago Comnet Corp
Cincinnati Bell Wireless LLC
Citywide News Network, Inc.
Cocola Broadcasting Companies LLC
Cohen, Elana
County Service Area 70 - TV 5
Cowboys Stadium LP
CP Communications, LLC
DCI II, INC.
DIOCESE OF FRESNO EDUCATION CORP.
Direct Broadcast Services, Inc.
ELLIS COMMUNICATIONS KDOC LICENSEE, LLC
Entravision Holdings, LLC
Fox Television Stations, Inc.
GOODYEAR TIRE AND RUBBER COMPANY
GSN New, Inc
GULF-CALIFORNIA BROADCAST COMPANY
Global Microwave Systems Inc
GovNET Licenses, LLC
HF Enterprises, Inc
Hallco Unlimited, Inc.
Hawaiian Telcom, Inc.
Heiden, William
Illinois Bell Telephone Company
Indiana Bell Telephone Company
Information & Display Systems, Inc.
Information Super Station, LLC
International Communications Group, Inc.
KCETLink
KFTV License Partnership GP
KMEX License Partnership GP
KRCA License LLC
KSBY Communications, Inc.
KSWB, LLC
KTLA, LLC
KUVI LICENSE PARTNERSHIP, G.P.
KVMD LICENSEE CO, LLC

Company (Continued)

Kentucky RSA #3 Cellular General Partner
Kentucky RSA #4 Cellular General Partner
LOS ANGELES TELEVISION STATION KCAL LLC
Loop, Inc.
MERCURY COMMUNICATIONS
MIDWEST TELEVISION INC.
Metro Networks Communications, Inc.
MetroSat Communications Inc.
Michigan Bell Telephone Company
Moreen, Steven K
NBC Telemundo License LLC
NEW ENGLAND DIGITAL DISTRIBUTION, INC.
NEW ENGLAND SATELLITE SYSTEMS INC
NEXSTAR BROADCASTING, INC.
NPG of California, LLC
NRJ TV LA License Co, LLC
NSM Surveillance
Navajo Communications Company
NorthWest Suburbs Community Access Corp
OTA Broadcasting (PSP), LLC
Ohio Bell Telephone Company
On Scene Video Production
Onboard Images
Pacific Television Center
Penn Service Microwave Co., Inc.
Plateau Telecommunications, Inc.
Plum TV, LLC
Production & Satellite Services, Inc.
Public Television Communications Center
QUICK LINK CONNECTIONS INC
Qwest Corporation
RCC Minnesota Inc. - MN NE ND SD
REMOTE FACILITIES CONSULTING SERVICES
RF Central, LLC
RF Film, Inc
RF Technology, LLC
Radiofone, Inc.
Randy Hermes Production
Regulus Media Services, Inc.
Remote Broadcasts, Inc.
San Bernardino Community Col Dis KVCR-TV
Scripps Media, Inc. - KERO TV
Scripps Media, Inc. - KGTV
Sinclair Bakersfield Licensee, LLC
Southwestern Bell Telephone L.P.
Speedshotz, Inc
Station Venture Operations, LP
Telefutura Los Angeles LLC - KFTR-TV
Texas A&M University, Athletic Department
Total RF Marketing Inc
Trinity Broadcasting Network Inc
Trinity Christian Center of Santa Ana

Company (Continued)

UNIVISION BAKERSFIELD LLC
Unimas Bakersfield
Unisat, Inc.
United Telephone - Southeast
VERIZON SOUTH INC.
Valley Public Television, Inc.
Verizon California Inc.
Verizon Maryland, Inc.
Verizon New England Inc.
Verizon New Jersey, Inc.
Verizon New York, Inc.
Verizon North Inc.
Verizon Northwest Inc.
Verizon Pennsylvania, Inc.
Verizon Virginia, Inc.
Verizon Washington DC, Inc.
Village Video Productions Inc
Vyvx, LLC
Westar Satellite Services LP
Western Technical Services
Wexler Video, Inc.
Winged Vision Inc
Wisconsin Bell, Inc.
Wolfe Air Aviation

There are no unresolved interference objections with the stations contained in these applications.

The following section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Date: 05/16/2014
Job Number: 140413COMSJC02

Administrative Information

Status: TEMPORARY (Operation from 06/26/2014 to 10/01/2014)
Call Sign: TEMP10
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

NUEVO, CALIFORNIA
Venue Name
Latitude (NAD 83): 33° 47' 43.6" N
Longitude (NAD 83): 117° 5' 20.4" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 566.62 m / 1859.0 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TO - Transmit-Only
Modulation: Digital
Minimum Elevation Angle: 5.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 7.32 m / 24.0 ft

Antenna Information

Transmit
Manufacturer: TIW
Model: 11.0 Meter
Gain / Diameter: 55.5 dBi / 11.0 m
3-dB / 15-dB Beamwidth: 0.29° / 0.54°

Max Available RF Power (dBW/4 kHz): 8.6
(dBW/MHz): 32.6

Maximum EIRP (dBW/4 kHz): 64.1
(dBW/MHz): 88.1
(dBW): 87.4

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.7 GHz
Emission / Frequency Range (MHz): 850KFXD / 6429.0
850KFXD / 6431.0

Max Great Circle Coordination Distance: 347.9 km / 216.2 mi
Precipitation Scatter Contour Radius: 274.6 km / 170.6 mi

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Coordination Values

NUEVO, CA

Licensee Name Intelsat License LLC
Latitude (NAD 83) 33° 47' 43.6" N
Longitude (NAD 83) 117° 5' 20.4" W
Ground Elevation (AMSL) 566.62 m / 1859.0 ft
Antenna Centerline (AGL) 7.32 m / 24.0 ft
Antenna Model TIW 11.0 Meter
Antenna Mode Transmit 6.7 GHz
Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%
Max Available RF Power 8.6 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.7 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	1.10	76.42	-10.00	256.40
5	2.21	72.41	-10.00	256.40
10	1.96	68.21	-10.00	256.40
15	2.70	64.35	-10.00	256.40
20	2.63	60.34	-10.00	256.40
25	2.53	56.42	-10.00	256.40
30	3.49	53.12	-10.00	256.40
35	3.37	49.49	-10.00	256.40
40	3.30	46.08	-10.00	256.40
45	3.29	42.94	-10.00	256.40
50	2.99	39.88	-10.00	256.40
55	2.53	37.01	-10.00	256.40
60	2.78	35.18	-10.00	256.40
65	3.42	34.29	-10.00	256.40
70	3.17	33.18	-10.00	256.40
75	3.22	33.01	-7.96	269.20
80	3.72	33.95	-4.20	292.90
85	3.36	34.69	0.77	324.20
90	3.38	36.37	4.53	347.90
95	2.49	37.81	4.53	347.90
100	2.99	40.84	4.53	347.90
105	3.50	44.15	4.53	347.90
110	3.76	47.52	4.53	347.90
115	3.70	50.90	4.53	347.90
120	3.92	54.61	4.53	347.90
125	3.84	58.30	4.53	347.90
130	4.39	62.35	4.53	347.90
135	3.90	66.11	4.53	347.90
140	4.15	70.18	4.53	347.90
145	4.15	74.23	4.53	347.90
150	3.50	78.23	4.53	347.90
155	3.92	82.42	4.53	347.90
160	4.24	86.58	4.53	347.90
165	4.67	90.72	4.53	347.90
170	4.76	94.84	4.53	347.90
175	5.29	98.89	4.53	347.90
180	5.93	102.84	4.53	347.90

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Coordination Values

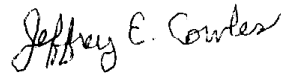
NUEVO, CA

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Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%
Max Available RF Power 8.6 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.7 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
185	6.64	106.67	4.53	347.90
190	6.27	110.66	4.53	347.90
195	6.62	114.40	4.53	347.90
200	6.08	118.36	4.53	347.90
205	5.57	122.26	4.53	347.90
210	5.90	125.67	4.53	347.90
215	6.19	128.89	4.53	347.90
220	7.25	131.37	4.53	347.90
225	6.91	134.47	4.53	347.90
230	5.70	138.01	4.53	347.90
235	6.01	140.03	4.53	347.90
240	5.66	142.20	4.53	347.90
245	5.56	143.65	4.53	347.90
250	5.18	144.83	4.53	347.90
255	4.53	145.68	4.53	347.90
260	4.64	145.14	4.53	347.90
265	4.36	144.37	4.53	347.90
270	4.36	142.76	4.53	347.90
275	4.44	140.59	0.77	324.20
280	3.74	138.60	-4.20	292.90
285	3.10	136.12	-7.96	269.20
290	2.46	133.26	-10.00	256.40
295	0.80	130.61	-10.00	256.40
300	0.61	126.91	-10.00	256.40
305	0.00	123.21	-10.00	256.40
310	0.00	119.14	-10.00	256.40
315	0.00	114.99	-10.00	256.40
320	0.00	110.78	-10.00	256.40
325	0.00	106.52	-10.00	256.40
330	0.00	102.23	-10.00	256.40
335	0.00	97.91	-10.00	256.40
340	0.00	93.58	-10.00	256.40
345	0.00	89.24	-10.00	256.40
350	0.00	84.90	-10.00	256.40
355	0.00	80.57	-10.00	256.40

Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.



Jeffrey E. Cowles
Engineer III, Telecommunications
COMSEARCH
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Ashburn, Va. 20147

DATED: May 16, 2014